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L10: Entry 1 of 2

File: USPT

May 24, 1977

US-PAT-NO: 4025599

DOCUMENT-IDENTIFIER: US 4025599 A

TITLE: Cuspated sheet forming

DATE-ISSUED: May 24, 1977

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Keith; Donald George	Mount Eliza			AU

US-CL-CURRENT: 264/167; 164/479, 164/488, 264/165, 264/285, 72/190

ABSTRACT:

A continuous process of forming a sheet of thermoplastic material by sequentially pressing against one face of the hot sheet of material the cold tips of projections set in and extending normally from a first series of separately moveable combs and sequentially pressing against the second face of the material the cold tips of projections set in and extending normally from a second series of separately moveable combs so that the projections of the first series of combs interpenetrate with the projections of the second series of combs in such a manner that the projections of the first series are spaced from the projections of the second series by a distance greater than the thickness of the sheet; and the interpenetrated projections are substantially parallel during the act of interpenetration; and wherein the interpenetrated combs are moved along at the speed of the sheet until the sheet is set and the combs are then removed and recycled.

5 Claims, 5 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 2

WEST**End of Result Set**

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L10: Entry 2 of 2

File: USPT

May 4, 1976

US-PAT-NO: 3955019

DOCUMENT-IDENTIFIER: US 3955019 A

TITLE: Cusped sheet forming

DATE-ISSUED: May 4, 1976

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Keith; Donald George	Mount Eliza, Victoria	3930		AU

US-CL-CURRENT: 428/34.5; 264/248, 428/131, 428/156, 428/174, 428/178, 428/179,
428/312.2, 428/317.1, 428/319.7, 428/34.7 , 428/35.9, 428/36.2

ABSTRACT:

A laminate comprising a core consisting of a cusped sheet consisting of a series of hollow projections projecting upwardly and downwardly from the median plane of said sheet and wherein the outer tips of the projections on the ends furthest from the median plane are closed and the ends of the projections in the median plane are open and wherein the projections form a series of pointed cusps said core laminated to a porous sheet wherein the points of the cusps on at least one face have been melted and at least partially allowed to impregnate the porous sheet.

13 Claims, 6 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 3

WEST[Generate Collection](#)[Print](#)**Search Results - Record(s) 1 through 9 of 9 returned.**☐ 1. Document ID: US 6336265 B1

L7: Entry 1 of 9

File: USPT

Jan 8, 2002

US-PAT-NO: 6336265

DOCUMENT-IDENTIFIER: US 6336265 B1

TITLE: Composite railroad cross tie and method of manufacturing same

DATE-ISSUED: January 8, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Niedermair; Siegfried	Sharon Ontario			CAX

US-CL-CURRENT: 29/460; 238/29, 238/83, 264/149, 264/171.11

ABSTRACT:

A composite railroad cross tie supporting railroad track rails on a ballast or concrete roadbed is provided comprising an elongated wooden core, an end cap positioned over each end of the core and an outer shell or coating. The wooden core consists of virgin or recycled natural wood or of man made engineered wood such as oriented strand board (OSB), plywood, and the like. The outer coating can consist of virgin or recycled thermoplastic, thermoset resin, and/or rubber, with or without fillers or reinforcements. In manufacture, the core member is sized to a dimension which is less than the desired dimension of the finished composite cross tie. The end caps are then positioned over ends of the core member. Following the positioning of the end caps, the coating is applied to the core member in a continuous process by passing a series of core members with their end caps in a substantially end-to-end configuration through a cross head die.

8 Claims, 9 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	EMC	Draw Desc	Image
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☐ 2. Document ID: US 6264871 B1

L7: Entry 2 of 9

File: USPT

Jul 24, 2001

US-PAT-NO: 6264871

DOCUMENT-IDENTIFIER: US 6264871 B1

TITLE: Field joint

DATE-ISSUED: July 24, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mullen; Douglas Thomas	East Lothian			GBX
Smith; Iain	Swindon			GBX

US-CL-CURRENT: 264/263; 156/304.2, 156/304.5, 264/265, 285/47, 285/53

ABSTRACT:

The method of forming a field joint around the bare joint of two joined insulation covered pipes includes providing a first angular cut back in the coating to expose the end of a pipe and providing a second cut back in the coating to provide an annular band of the coating of a lesser diameter than the coating on the pipe. A thin coating of polyurethane may then be applied over the first and second cut backs and a recess provided in the band of coating. A mould may then be secured around the lesser diameter band, and polyurethane pumped into the mould in a sufficient amount to form a field joint which extends into the second cut back and lies flush with the coating of the pipes so as to allow for reeling and laying of the pipe without snagging. The field joint can be located around the bare joint and includes a polyurethane infill recessed into the insulated coating of the pipes such that infill lies flush with the surface of the coating on the pipes.

7 Claims, 3 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMK	Draw Deso	Image
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☐ 3. Document ID: US 5962427 A

L7: Entry 3 of 9

File: USPT

Oct 5, 1999

US-PAT-NO: 5962427
DOCUMENT-IDENTIFIER: US 5962427 A

TITLE: In vivo gene transfer methods for wound healing

DATE-ISSUED: October 5, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Goldstein; Steven A.	Ann Arbor	MI		
Bonadio; Jeffrey	Ann Arbor	MI		

US-CL-CURRENT: 514/44; 424/93.21, 435/320.1, 435/325, 435/455, 435/458, 536/24.5

ABSTRACT:

The present invention relates to an in vivo method for specific targeting and transfer of DNA into mammalian repair cells. The transferred DNA may include any DNA encoding a therapeutic protein of interest. The invention is based on the discovery that mammalian repair cells proliferate and migrate into a wound site where they actively take up and express DNA. The invention further relates to pharmaceutical compositions that may be used in the practice of the invention to transfer the DNA of interest. Such compositions include any suitable matrix in combination with the DNA of interest.

14 Claims, 12 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 7

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	RMK	Draw Deso	Image
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☐ 4. Document ID: US 5489405 A

L7: Entry 4 of 9

File: USPT

Feb 6, 1996

US-PAT-NO: 5489405

DOCUMENT-IDENTIFIER: US 5489405 A

TITLE: Composite joint infill system

DATE-ISSUED: February 6, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Holbert; Dennis E.	Nassau Bay	TX		
Dressel; David C.	Friendswood	TX		
McBrien; James H.	Houston	TX		
Wyke; Richard L.	Missouri City	TX		

US-CL-CURRENT: 264/35; 264/113, 264/255, 264/45.3, 264/46.5, 264/46.9

ABSTRACT:

A pair of concrete coated pipe joints welded together end to end with a gap between the concrete coatings, the gap being filled with a fast setting elastomeric polymeric infill material, either solid or foamed, and a particulate filler material, and a method for molding the infill material with the mold being filled with filler material before the polymer components are injected, and with a membrane lining the mold to prevent the polymer from adhering to the mold.

3 Claims, 6 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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☐ 5. Document ID: US 5328648 A

L7: Entry 5 of 9

File: USPT

Jul 12, 1994

US-PAT-NO: 5328648

DOCUMENT-IDENTIFIER: US 5328648 A

TITLE: Method of using a composite joint infill system

DATE-ISSUED: July 12, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
McBrien; James H.	Houston	TX		
Wyke; Richard L.	Missouri City	TX		
Dressel; David C.	Friendswood	TX		

US-CL-CURRENT: 264/35; 156/304.2, 264/109, 264/261, 264/338, 264/45.3, 264/46.5, 264/46.9

ABSTRACT:

A pair of concrete coated pipe joints welded together end to end with a gap between the concrete coatings, the gap being filled with a fast setting elastomeric polymeric infill material, either solid or foamed, and a particulate filler material, and a method for molding the infill material with the mold being filled with filler material

before the polymer components are injected, and with a membrane lining the mold to prevent the polymer from adhering to the mold.

7 Claims, 4 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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FORM	Draw Desc	Image
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☐ 6. Document ID: US 5007767 A

L7: Entry 6 of 9

File: USPT

Apr 16, 1991

US-PAT-NO: 5007767
DOCUMENT-IDENTIFIER: US 5007767 A

TITLE: Method for joining polyolefin pipes by fusion

DATE-ISSUED: April 16, 1991

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Stafford; Trevor G.	Tyne & Wear			GB2

US-CL-CURRENT: 405/184.2; 156/304.2, 156/304.6, 156/309.6, 405/156, 405/169, 405/170, 405/184.3

ABSTRACT:

A liner or other elongated duct is made by joining lengths of thin-walled polyethylene fusion. Typical thickness 2-4 mm, diameter 200 mm. Pipe ends are clamped in clamps which restore circularity. The ends are trimmed leaving aligned ends normal to pipe length. The clamps force the ends against a heated body, which is retracted and the ends are then forced together. The total heating period, say 15 seconds, and the period between separation from the body and engagement of the ends, say 1 second, are very short. Good joint strengths and small beads result. The liner can be pulled into burst cast-iron gas main before a new main is passed through the liner; or the liner is a seal in a pipe. The method is applicable to other polyolefins e.g. polypropylene.

11 Claims, 3 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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FORM	Draw Desc	Image
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☐ 7. Document ID: US 4593509 A

L7: Entry 7 of 9

File: USPT

Jun 10, 1986

US-PAT-NO: 4593509
DOCUMENT-IDENTIFIER: US 4593509 A

TITLE: Building structure

DATE-ISSUED: June 10, 1986

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Linton; Derek	Paddock Wood			GB2

US-CL-CURRENT: 52/262; 52/22, 52/350, 52/90.1

ABSTRACT:

A ceiling/floor or ceiling/roof structure comprising a plurality of substantially parallel substantially horizontally extending joists, each joist being supported at the two opposed ends thereof, a first set of transverse members resting on the top of and secured to the top of at least some of said joists, and a further set of transverse members extending underneath and connected to the lower surfaces of at least some of said joists, the said structure being adapted to be associated with ceiling and/or roofing or flooring materials.

12 Claims, 11 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 9

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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RMC	Draw Desc	Image
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☐ 8. Document ID: US 4025599 A

L7: Entry 8 of 9

File: USPT

May 24, 1977

US-PAT-NO: 4025599

DOCUMENT-IDENTIFIER: US 4025599 A

TITLE: Cusped sheet forming

DATE-ISSUED: May 24, 1977

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Keith, Donald George	Mount Eliza			AU

US-CL-CURRENT: 264/167; 164/479, 164/488, 264/165, 264/285, 72/190

ABSTRACT:

A continuous process of forming a sheet of thermoplastic material by sequentially pressing against one face of the hot sheet of material the cold tips of projections set in and extending normally from a first series of separately moveable combs and sequentially pressing against the second face of the material the cold tips of projections set in and extending normally from a second series of separately moveable combs so that the projections of the first series of combs interpenetrate with the projections of the second series of combs in such a manner that the projections of the first series are spaced from the projections of the second series by a distance greater than the thickness of the sheet; and the interpenetrated projections are substantially parallel during the act of interpenetration; and wherein the interpenetrated combs are moved along at the speed of the sheet until the sheet is set and the combs are then removed and recycled.

5 Claims, 5 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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RMC	Draw Desc	Image
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☐ 9. Document ID: US 3955019 A

L7: Entry 9 of 9

File: USPT

May 4, 1976

US-PAT-NO: 3955019

DOCUMENT-IDENTIFIER: US 3955019 A

TITLE: Cuspated sheet forming

DATE-ISSUED: May 4, 1976

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Keith; Donald George	Mount Eliza, Victoria	3930		AU

US-CL-CURRENT: 428/34.5; 264/248, 428/131, 428/156, 428/174, 428/178, 428/179,
428/312.2, 428/317.1, 428/319.7, 428/34.7 , 428/35.9, 428/36.2

ABSTRACT:

A laminate comprising a core consisting of a cuspated sheet consisting of a series of hollow projections projecting upwardly and downwardly from the median plane of said sheet and wherein the outer tips of the projections on the ends furthest from the median plane are closed and the ends of the projections in the median plane are open and wherein the projections form a series of pointed cusps said core laminated to a porous sheet wherein the points of the cusps on at least one face have been melted and at least partially allowed to impregnate the porous sheet.

13 Claims, 6 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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WAC	Draw Desc	Image
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Search Results - Record(s) 1 through 3 of 3 returned.☐ 1. Document ID: US 5489405 A

L12: Entry 1 of 3

File: USPT

Feb 6, 1996

US-PAT-NO: 5489405

DOCUMENT-IDENTIFIER: US 5489405 A

TITLE: Composite joint infill system

DATE-ISSUED: February 6, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Holbert; Dennis E.	Nassau Bay	TX		
Dressel; David C.	Friendswood	TX		
McBrien; James H.	Houston	TX		
Wyke; Richard L.	Missouri City	TX		

US-CL-CURRENT: 264/35; 264/113, 264/255, 264/45.3, 264/46.5, 264/46.9

ABSTRACT:

A pair of concrete coated pipe joints welded together end to end with a gap between the concrete coatings, the gap being filled with a fast setting elastomeric polymeric infill material, either solid or foamed, and a particulate filler material, and a method for molding the infill material with the mold being filled with filler material before the polymer components are injected, and with a membrane lining the mold to prevent the polymer from adhering to the mold.

3 Claims, 6 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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☐ 2. Document ID: US 5328648 A

L12: Entry 2 of 3

File: USPT

Jul 12, 1994

US-PAT-NO: 5328648

DOCUMENT-IDENTIFIER: US 5328648 A

TITLE: Method of using a composite joint infill system

DATE-ISSUED: July 12, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
McBrien; James H.	Houston	TX		
Wyke; Richard L.	Missouri City	TX		
Dressel; David C.	Friendswood	TX		

US-CL-CURRENT: 264/35; 156/304.2, 264/109, 264/261, 264/338, 264/45.3, 264/46.5,
264/46.9

ABSTRACT:

A pair of concrete coated pipe joints welded together end to end with a gap between the concrete coatings, the gap being filled with a fast setting elastomeric polymeric infill material, either solid or foamed, and a particulate filler material, and a method for molding the infill material with the mold being filled with filler material before the polymer components are injected, and with a membrane lining the mold to prevent the polymer from adhering to the mold.

7 Claims, 4 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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RMK	Draw Desc	Image
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☐ 3. Document ID: US 3955019 A

L12: Entry 3 of 3

File: USPT

May 4, 1976

US-PAT-NO: 3955019
DOCUMENT-IDENTIFIER: US 3955019 A

TITLE: Cuspated sheet forming

DATE-ISSUED: May 4, 1976

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Keith, Donald George	Mount Eliza, Victoria	3930		AU

US-CL-CURRENT: 428/34.5; 264/248, 428/131, 428/156, 428/174, 428/178, 428/179,
428/312.2, 428/317.1, 428/319.7, 428/34.7 , 428/35.9, 428/36.2

ABSTRACT:

A laminate comprising a core consisting of a cuspated sheet consisting of a series of hollow projections projecting upwardly and downwardly from the median plane of said sheet and wherein the outer tips of the projections on the ends furthest from the median plane are closed and the ends of the projections in the median plane are open and wherein the projections form a series of pointed cusps said core laminated to a porous sheet wherein the points of the cusps on at least one face have been melted and at least partially allowed to impregnate the porous sheet.

13 Claims, 6 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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